

RESOURCES

CAPABILITY STATEMENT

MINING | OIL & GAS



JWA 



Ground support on a rain-affected oilfield development program
Moonie, QLD.

INTRODUCTION



As the resource industry shifts towards safer and more sustainable operations, we provide innovative solutions that enable project teams to build low-impact, temporary roads and work platforms securely and efficiently.

JWA, is the premier supplier of heavy-duty composite mats within Australia. With over two decades of experience supplying the Dura-Base® interlocking mat system to projects across the continent, we help developers and engineers keep on schedule and budget in overcoming ground issues while supporting best practises in environmental and work safety policies.

We understand that every project is unique and require a unique solution. Resource projects often spanning across large areas have to deal with terrain challenges such as problematic soils, environmental factors, exposure to rain events and more.

Our range of composite matting solutions have been tried and tested on major Australian projects. Whether it is preventing heavy equipment from breaking through acid sulfate soils, minimising earthworks around waterways and nature reserves, or providing quick access with minimum delays, we have a successful track record since starting in 2003.

From man-portable pedestrian walkways to Australia's toughest composite mat, Dura-Base®, our expert team will advise the right solution for your scope of works.



OUR SOLUTIONS

At JWA, we take pride in assisting mining, exploration and drilling programs meet or beat their delivery timelines while minimising their impact on the environment and to land stakeholders.

TEMPORARY ACCESS

- Geotechnical investigations
- Exploration drill programs
- Emergency repair access
- Creek crossings
- Floodplain access
- Powerline stringing
- Cabling trench works



STABILISED PLATFORMS

- Drill pads
- Crane lifting platforms
- Temporary workshop flooring
- Temporary compounds
- Heavy haul road



OUR SOLUTIONS

EROSION & SEDIMENT CONTROL

- Construction vehicle track-out control
- Keep soil and spoil contained on site
- Stabilised site exits
- Replacement of aggregates and imported fill material



GROUND PROTECTION

- Working in Class A nature reserves, cultural heritage sites, environmental wetlands
- Mitigate soil contamination
- Hardscape protection
- Protection of underground pipelines and buried services



OUR PRODUCTS

Dura-Base® Composite Matting System

4.27m x 2.44m x 105mm, 454kg

Interlocks to give **maximum stability** for heavy equipment in soft grounds.
Maximum protection to prevent track ruts on environmentally sensitive sites.
Reusable over multiple sites saving on transport and imported fill.



FODS Track-Out Control Matting

3.66m x 2.13m x 95mm, 191kg

Reusable rumble mats to keep debris within site exits.
Installs on most surfaces with **no digging required**.
Tough on mud, gentle on tyres.



OUR PRODUCTS

Pro-Zone Composite Mats

1.0m x 1.0m x 75mm, 23kg

Interlocking man-portable mats for a flushed surface suitable for **footpaths and wheelchair access**. Near-instant walkways and workshop floors on grass, sand, and soft grounds **with little or no ground preparation**.



Pro-Tech Ground Protection Mats

Pro-Tech SD - 2.0m x 1.0m x 12mm, 27kg

Lighter, faster, and more compact.
1.2cm thickness for proven durability.
Designed for the Australian climate.

Pro-Tech HD - 2.4m x 1.2m x 14mm, 43kg

Heavier duty yet still man-portable.
For jobs with softer ground and larger machinery.
Designed for the Australian climate.



CASE STUDIES

Moonie Oilfield

Location : Moonie, QLD

Client : Bridgeport

Coverage : 1,500 m²

Contract Value : \$170K

Scope :

- Drill pad construction
- Surrounding compound site platform
- Ground stabilisation on soft soil

JWA supported the provision of heavy-duty matting of multiple pads and site compound areas for the client's development program.

Challenges:

- Inclement weather affecting site conditions and project schedule.
- The timely deployment of pads across multiple sites.

Benefits of Composite Matting:

- Rapid pad construction allowing for the multiple mobilisations and demobilisations of the same pad as required across the project.
- Weatherproofed site to keep the project on schedule.
- Minimal ground disturbance.
- Minimal ground preparation and remediation.
- Waterproof and non-contaminating.





CASE STUDIES

Dragline Move

Location : Central Queensland, QLD

Client : CPB

Coverage : 1,260 m²

Contract Value : \$50K

Scope :

- Ground stabilisation and load spreading
- Temporary ground platform
- Wet weather mitigation

JWA supported the move of the 3,200 tonne Marion 8050 dragline from the Goonyella Riverside mine to South Walker Creek Mine, traveling almost 100km while crossing 55 waterways, 17 power lines, 4 roads, 3 rail sections, and 2 highways.

Challenges:

- Tight schedule involving timed closures of mining supply rail lines and major motorways. Delays would incur high liquidated damages.
- Establishing multiple weatherproofed and stable parking platforms for dragline.
- Crossing over underground pipelines.

Benefits of Composite Matting:

- The ease of pad construction allowed teams to reuse the same pad over multiple sites, eliminating the need to build single-use concrete platforms.
- Non-contaminating material minimising the risk of runoffs into sensitive waterways.
- Minimal ground preparation and remediation required.
- Waterproof.
- Flexibility to meet ad-hoc changes to the schedule.





CASE STUDIES

Underground Coal Use Case

Location : Mannering Park, NSW

Client : Ipsum Mining for Delta Coal

Coverage : 300 m²

Contract Value : \$150K

Scope :

- Ground improvement to reduce workplace hazards, risk of work-related injuries, and increase production

In this development situation, Dura-Base® has been used as a proactive measure in areas of poor ground, effectively reducing the risk of shuttle car incidents.

36 meters of Dura-Base® Composite Roadway Mats supplied by JWA were installed from the bootend inbye to cover the potential hazard zone.

The completed composite mining roadway with ramp access provides a stable surface for the shuttle car to approach the bootend with ease. The shuttle car wheels now have a solid platform to drive on and have eliminated the wheel ruts from the previous road conditions consisting of coal, clay, and water slurry mixture.

The 105mm thick HDPE mats are non-permeable which puts a stop to the constant mixing. The uniform strength and distribution of the shuttle car weight on the roadway matting allows a level approach to the bootend.



CASE STUDIES

Underground Coal Use Case - cont.

Benefits

- Improved road conditions raising workplace safety and morale.
- Efficient travel times and production efficiencies – mine design guidelines state a flat uniform roadway increases production by 6%.
- Lower exposure to walkway hazards – Shuttle car cables now sit on roadway matting, which reduces the risk of humans tripping, rolling ankles, and falling.
- Reduces musculoskeletal disorders – Level road surface lowers operators' exposure to whole-body vibrations during transport.
- Reduced operational and maintenance costs – reduced vibration to the shuttle cars lowers the stress on alternators and drive motors.
- Logistic agility - the operational benefit of using Dura-Base® Composite Mats is the ease and speed of installation. Provides teams with the ability to replace roadways or patch sections almost instantly compared to the waiting time of days or weeks from using concrete.

Feedback from the Delta Coal project team

- "The use of Dura-Base® in soft floor conditions was paramount to the success of the development panel through these areas".
- "Dura-Base® is now an integral part of the development process sequence".



CASE STUDIES

QAL Waste Line Replacement in Tidal Flats

Location : Gladstone, QLD

Client : McConnell Dowell

Coverage : 9,150 m²

Contract Value : \$660K

Scope:

- Sensitive site access
- Marine ecosystem protection
- Soft ground access
- Work platform

The project entailed installing an 8.8 km above-ground pipeline at Queensland Alumina Gladstone refinery. The scope of work included installing a new line while operations continued, implementing operational changes, removing the old line, and upgrading piling to the existing structure, all within a sensitive intertidal zone.

Challenges:

- Access through sensitive marine mud and tidal areas.
- Minimising the impact and respecting integrity of the intertidal zone.
- Ensuring stable and uninterrupted access for plant and vehicle over the soft mud.

Benefits of Composite Matting:

- Minimised ground disturbance and prevented any risk of contamination to the sensitive marine ecosystem.
- Allowed uninterrupted access to the pipeline.
- Reduced project timeline due to speedy installation and no post-job remediation.
- Cost-effective solution.





CASE STUDIES

Incitec Pivot Fertiliser Plant

Location : Townsville, QLD

Client : Incitec Pivot

Date: 1 August 2019

Scope:

- Fertiliser slurry track-out mitigation
- Wheel wash

Incitec Pivot first trialled FODS mats as a simple track-out control solution alongside their rumble grid. But over time, they discovered more value: placing FODS immediately after the wheel wash elevated vehicle tyres, allowing deeper cleaning and better fertiliser runoff capture. Eventually, the team integrated FODS into a full **wheel bath system**, using the mats' unique cone profile to spread tyre treads and maximise cleaning efficiency. Now an essential part of site operations, FODS helps keep fertiliser residue off roads and within containment.

Challenges:

- Fertiliser residue being tracked out onto roads.
- Traditional systems weren't fully effective at removing embedded sediment.
- Alternative systems would require significant time and investment.

Benefits of FODS:

- Versatile - used as track-out control, wheel wash extension and wheel bath.
- Cone-shaped design gently spreads tyres, reaching deep into treads.
- Made from inert HDPE plastic – rust-free and chemically resistant.





SUSTAINABLE PRACTICES

At JWA, sustainability is a core priority that guides our operations. We embody the **Reduce, Reuse, Recycle** principles in everything we do. In our daily operations, we:

- Wash our mats after every job to maintain their pristine condition.
- Inspect and service our fleet after every job, which has enabled us to extend the lifespan of our mats by 5 years or more, from the manufacturer's stated 15 years to 20 years.



RECYCLING AND "END OF LIFE" PROGRAM

Our mats are 100% recyclable. When they reach the end of their life we clean them extensively to remove debris and other material that may contaminate the process, portion the mats small into pieces so that they can be accommodated by the recycling plant and then send them to a local plastics recycling centre.

We also introduced the "End Of Life" program for our clients who own their fleet and require assistance in responsible disposal of the mats that are no longer fit for purpose.

AUSTRALIAN MADE RECASTED PINS

Locking pins are vital for Dura-Base® installations as they prevent mat displacement.

As part of the "Pins Recasting" program, we remove the old, deteriorated plastic to salvage the steel shaft. We've collaborated closely with a local manufacturer to design pin molds and develop an improved quality resin mixture.

This program allows us to conserve valuable steel resources, while supporting Australian manufacturers and providing our customers with high quality locking pins.



SUSTAINABLE PRACTICES

We strive for continuous improvement of our facilities and embrace innovative, sustainable approaches. In our operations, we strictly adhere to the guidelines outlined in our sustainability policy and aim to exceed the required standards.



WATER TREATMENT

We recently overhauled our water treatment system at our headquarters, installing a PR Water unit to manage substantial volumes of contaminated water. The system uses flocculant chemicals to quickly sediment deposits. Through our collaboration with PR Water, we conducted tests to determine optimal chemical compositions for treating water from our bog mats, which return with diverse soil deposits. We took multiple water samples to a NATA Accredited Lab to ensure compliance with UnityWater discharge requirements.

POWERED BY RENEWABLE ENERGY

As part of our commitment to reducing the environmental footprint of our operations, we've almost fully transitioned our Brisbane facility to sustainable energy, harnessing Queensland's abundant sunshine. Our 80 solar panels (36kW), installed in 2021, has generated more than 50 MWh annually, reducing our grid consumption by two-thirds and supplying triple the amount of renewable energy back to the grid. Additionally, we utilise a battery unit to power our office appliances during night hours and have implemented various energy efficiency actions.



Other sustainable actions:

- We have conducted carbon accounting over the past 3 years, including calculating our scope 3 emissions, and are nearing our net zero goal for scope 1 and 2.
- We performed a yard audit for energy efficiency and implemented all recommended changes.
- We enhanced our sustainability policy to address work-related travel, ensuring all emissions from business travel are fully offset
- We electrified operations where possible, including:
 - Switching to electric-powered high-pressure washers.
 - Using electric tools for servicing and mat repairs.
- We have introduced energy-saving measures, such as:
 - LED lighting replacements and motion sensor installations.
 - Building insulation upgrades for improved climate control and reduced energy consumption.
- We utilise a 30,000L rainwater tank for mat washing.
- We recycle and repurpose materials like steel and wood pallets, with our team creatively minimising waste by:
 - Building furniture from palletised wood.
 - Creating garden beds and veggie patches.
- We maintain a permaculture garden on our premises, growing fruit and vegetables for team's use.

ABOUT US

Established in 2003, JWA is wholly Australian-owned and operated, supplying projects nationwide from our purpose-built facility in Brisbane.

With beginnings in supporting oil and gas exploration projects, our specialised experience in providing temporary access, ground support and work platform solutions now assist infrastructure and construction projects all over Australia.

As the exclusive distributor of Dura-Base® Composite Matting for the Asia-Pacific region, we have over 170,000 m² deployed and over 50,000 m² available in Australia alone.

We are proud members of the Infrastructure Sustainability Council, and the International Erosion Control Association Australasia.

Our FODS Track-Out Control Matting received the Highly Commended Award in the 2020 IECA Australasia Environmental Excellence Awards, under the category of Excellence in Innovation, Contribution or Education to the Erosion and Sediment Control Industry.

Our products are part of ISC's iSupply directory and may contribute to projects aiming to fulfill credits in IS v1.2 Dis-4, IC-8, Mat-1, Was-1 & Was-2, and IS v2.1 Env-4, Inn-1, Rso-3, Rso-4, Rso-6.

JWA Composite Matting
ABN : 91 106 986 216



OUR STANDARDS

Safety, Environment, and Quality Management Systems

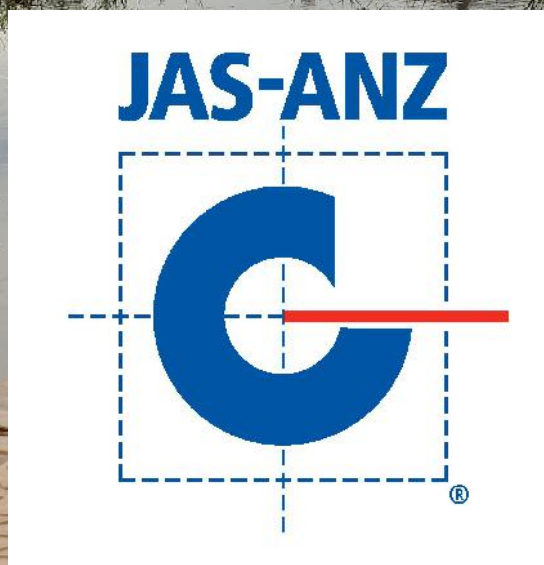
At JWA, safety, environmental responsibility, and quality are fundamental to how we operate. Guided by our **Health, Safety, Environment & Quality (HSEQ) Policy**, we are committed to eliminating hazards, minimising risks, and ensuring the well-being of all personnel while delivering solutions that exceed client expectations.

We take pride in having our operations certified to **ISO 45001:2018 (Occupational Health and Safety Management Systems)** and our facilities and business processes certified to **ISO 9001:2015 (Quality Management Systems)**. These certifications demonstrate our commitment to compliance, continuous improvement, and industry-leading standards.

Our team has a proven track record of delivering projects on highly regulated sites, maintaining strong controls around safety, quality, and environmental protection. Through our **Integrated HSEQ management system**, we aim to:

- Protect people and the environment by preventing harm, reducing waste, and using resources responsibly.
- Maximise efficiency by improving energy performance and minimising environmental impacts.
- Ensure compliance with all legal and regulatory obligations.
- Engage and support personnel through training, consultation, and feedback opportunities.
- Continuously improve our systems and performance through review, innovation, and collaboration with stakeholders.

This approach ensures that JWA consistently delivers safe, reliable, and sustainable solutions for our clients and communities.



OUR CLIENTS



CONTACT US

Our friendly team are here to help

Chat to us about your project scope today and find how our solutions can be applied to reduce the impact of the project on the environment while successfully meeting deadlines.

JWA Composite Matting

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Follow us on
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tuned for the
updates

With an extensive network of transport operators and suppliers, we provide **nationwide coverage** across Australia and Oceania, delivering mats to our customers wherever they are.



NOTES



When you need to find a way

1800 264 628 | 1800 BOG MAT

www.jwamats.com.au